

Amendments to the Specification:

Page 2, lines 10-13, replace the paragraph with:

Fig. 2 shows the system construction used in a case where erasure correction is applied. The area surrounded by a broken line is generally provided as the function of an HDC 206 (hard disk controller).

Pages 10 and 11, from page 10, line 25 to page 11, line 8, replace the paragraph with:

Fig. 4 shows the construction of the error detection/correction system of the present invention. The area surrounded by a broken line in Fig. 4 is provided as a function of the HDC 408. The read head 106 repeatedly reads certain sectors on the magnetic disk a plurality of times, and outputs a read analog waveform. The R/W channel 401 restores the input waveform to a plurality of NRZ data. Then, the data memory 402 used for erasure spot checking stores these NRZ data. Furthermore, among these data, one or more NRZ data re stored by a buffer memory 403.

Page 13, first full paragraph, lines 8 to 17, replace the paragraph with:

Furthermore, since the error correction of the present invention requires that data be ~~written~~read a plurality of times, this error correction requires more time than error detection and correction using an ordinary Reed-Solomon code. Accordingly, when the present invention is applied to an {actual} product, it is envisioned that {the method of the present invention} will be performed in cases where erasure correction or error detection and correction using general Reed-Solomon code is first performed, and it proves impossible to accomplish error detection and correction by these methods.

Page 20, first full paragraph, lines 3 to 14, replace the paragraph with:

Next, the write data in a case where the NRZ data B 806 and NRZ data C 808 are input into the R/W channel 810 are respectively designated as write data B 811 and write data C 812. Furthermore, the write current waveforms that are used when the write data B 811 and write data C 812 are sent to the R/W/ amplifier 813 are respectively designated as a write current waveform B 814 and write current waveform C 815. Moreover, the analog waveforms that are obtained when the magnetization inversion formed by the writing of the data on the magnetic disk 816 by means of these write current

Serial No. 10/067,335

H-1023

waveforms is read by the read head are respectively designated as an analog read waveform B 817 and analog read waveform C 818.